Application No. 10/519,299 Response Dated: 27 October 2009

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## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. - 54. (canceled).

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55. (presently amended) A method for generating data for assessing cognitive or sensomotor capabilities or capacities of a test person for a test subject, the method comprising:

Chronologically tracking a plurality of cerebral activities for a given moment in time;

determining a cerebral location corresponding to each one of the plurality of cerebral activities either by measuring the electromagnetic field or by observing the plurality of cerebral activities using a positron emission tomography device and using a functional magnetic resonance imaging device;

filtering the cerebral location corresponding to each one of the plurality of cerebral activities to trace relevant source locations only;

registering a respective data value associated with each of the plurality of filtered cerebral locations for a corresponding cerebral activity;

tracing a relevant change in the cerebral activities from the filtered cerebral locations;

associating the relevant source locations with a region of the brain wherein the regions of the brain comprise temporal lobe, hippocampus system, limbic system, frontal lobe, occipital lobe, and parietal lobes of the test subject;

grouping the relevant source locations within the regions of the brain; and

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assessing the test person's cognitive or sensomotor capabilities or

capacities of the test subject by interrelating the grouping of the relevant

source location.

5 56. (previously presented) The method of claim 55 wherein determining the (previously presented) cerebral location further comprises; measuring the

cerebral field electric potential.

57. (previously presented) The method of claim 55 wherein determining the

cerebral location further comprises; measuring the cerebral field magnetic

potential.

58. The method of claim 56 further comprising: using magnetic

encephalograph or electro-encephalograph to measure a neural discharge that

15 accompanies the at least one cerebral activities.

> 59. (previously presented) The method of claim 55 wherein the

chronologically tracking the plurality of cerebral activities further comprises:

providing stimulus related to sensory or cognitive activities.

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60. (previously presented) The method of claim 59 wherein the providing

stimulus related to sensory or cognitive activities further comprises: visual.

acoustic, or somatic sensory stimuli.

25 61. (canceled).

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62. (canceled)

63. (previously presented) The method of claim 55 wherein determining a

cerebral location further comprises; calculating a potential source location.

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64. (previously presented) The method of claim 55 further comprising:

correlating a level of cognitive or sensomotor capabilities or capacities of the

test person for the test subject based on a number of relevant source locations

within different groups of brain regions.

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65. (previously presented) The method of claim 55 further comprising:

assessing the truthfulness of the test person based on a number of relevant

source locations within different groups of brain regions.

15 66. (previously presented) A System for generating data for assessing

cognitive or sensomotor capabilities or capacities of a test person for a test

subject, the system comprising:

a plurality of sensors adapted for coupling to the test person;

an amplifier connected to the plurality of sensors:

20 a computer in communication with the amplifier, the computer being adapted to

record output from the plurality of sensors;

a storage medium with a program stored therein, the program being adapted to

execute a method:

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the computer further comprising a central processing unit adapted to communicate with the amplifier, an output device, the memory device, and the storage medium; and

a program residing in the computer, the program comprising computer operable instructions comprising

chronologically tracking a plurality of cerebral activities for a given moment in time:

determining a cerebral location corresponding to each one of the plurality of cerebral activities:

filtering the cerebral location corresponding to each one of the plurality of cerebral activities to trace relevant source locations only;

registering a respective data value associated with each of the plurality of filtered cerebral locations for a corresponding cerebral activity:

tracing a relevant change in the cerebral activities from the filtered cerebral locations;

associating the relevant source locations with a region of the brain wherein the regions of the brain comprise temporal lobe, hippocampus system, limbic system, frontal lobe, occipital lobe, and parietal lobes of the test subject; and grouping the relevant source locations within the regions of the brain.

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67. (previously presented) The system of claim 66 further comprising:
a memory device in communication with the central processing unit and adapted

for storing test situations;

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situations to the test person;

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an output device for visual or acoustic or somatic sensory presentation of test

and wherein the computer operable instructions further comprise instructions to create visual, or acoustic, or somatic sensory stimuli according to a pre-defined

5 pattern, the instructions enabling operation of the output device.

68. (previously presented) The system of claim 66 wherein the amplifier

comprises at least one of the following:

an electroencephalograph, a magnetoencephalograph, a positron emission

tomography device, a functional magnetic resonance device.

69. (previously presented) The system of claim 66 wherein the method

comprises:

chronologically tracking a plurality of cerebral activities for a given moment in

15 time;

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determining a cerebral location corresponding to each one of the plurality of

cerebral activities;

filtering the cerebral location corresponding to each one of the plurality of

cerebral activities to trace relevant source locations only;

20 registering a respective data value associated with each of the plurality of

filtered cerebral locations for a corresponding cerebral activity;

tracing a relevant change in the cerebral activities from the filtered cerebral

locations;

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associating the relevant source locations with a region of the brain wherein the  $\,$ 

regions of the brain comprise temporal lobe, hippocampus system, limbic system, frontal lobe, occipital lobe, and parietal lobes of the test subject;

grouping the relevant source locations within the regions of the brain; and

grouping the relevant source locations within the regions of the brain, and

assessing the test person's cognitive or sensomotor capabilities or capacities of the test subject by interrelating the grouping of the relevant source location.

70. (previously presented) The system of claim 69 wherein the method

comprises:

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10 assessing the test person's cognitive or sensomotor capabilities or capacities of

the test subject by interrelating the grouping of the relevant source location.